## ISSUE SLIP STAPLE AREA (for additional cross references)

APPLIC/

(LAS

INTERNAT

TERN

The term of subsequent to has been discla

The term of not extend beyond U.S Patent, 1

The terminal this patent have WARNING:
The information disposacion outside Form PTO-436A (Few. 699)

|               | POSITION           |  |   |   |          |  |  |   |  |  |  |  | Ī  | Nľ   | ПА   | LS  |  | Ţ                 | ID NO.            |                   |                   |   |  |  | DATE              |  |                   |  |   |                   |                    |                   |                   |                   |  |                   |   |                   |
|---------------|--------------------|--|---|---|----------|--|--|---|--|--|--|--|--|--|--|---|--|-------------------|-------------------|-------------------|-------------------|---|--|--|-------------------|--|-------------------|--|---|-------------------|--------------------|-------------------|-------------------|-------------------|--|-------------------|---|-------------------|
| F             | FEE DETERMINATION  |  |   |   |          |  |  |   |  |  | 77.  |  |  |  | $\frac{1}{2}$  | 1,801010  |  |                   |                   |                   |                   | 2/23/90   |  |  |                   |  |                   |  |   |                   |                    |                   |                   |                   |  |                   |   |                   |
| 1             | O.LP.E. CLASSIFIER |  |   |   |          |  |  |   |  |  |  |  |  |  |  |   |  | I                 |                   |                   |                   | 2   | _  |  | 2                 |  |                   |  |   |                   |                    | _                 |                   |                   |  |                   |   |                   |
|               |                    |  |   |   |          |  |  |   |  |  |  |  |  |  |  |   |  |                   |                   |                   | ¥                 | <u>2ء</u>   | 9  | /  |                   |  |                   | 4  | - /   | 1                 | - 4                | 00                |                   |                   | 4  |                   |   |                   |
| П             | ŘĘ                 | SF   | 0   | N:  | SE       | F  | OF   | M   | IAI  | LIT  | Y  | RE   | VIE  | W  |  |   |  |                   |                   |                   | 1                 |   | _  |  |                   |  |                   |  |   |                   |                    |                   |                   |                   | _  |                   |   |                   |
|               |                    | •  | _   | _   | _        |  |  |   | _  |  |  |  |  |  |  |   |  |                   |                   | _                 | 1                 |   |  |  |                   |  |                   |  |   |                   |                    |                   |                   |                   |  |                   |   |                   |
|               | •                  |  |   |   |          |  |  |   |  |  |  |  |  |  |  |   |  |                   | 0                 | F (               |                   |   |  |  |                   |  |                   | M  | n-e   | alec              | teri               |                   |                   |                   |  |                   |   |                   |
|               | ١.                 |  |   |   |          |  | -  |   |  |  |  |  |  |  | /  | veje<br>Vilov   | ved  | u<br>             |                   |                   |                   | 1   |  |  |                   |  |                   | In   | terf  | ere               |                    |                   |                   |                   |  |                   |   |                   |
|               |                    | "  |   |   |          |  |  | _   | Œ  | hro  | uol  | h n  | ume  | ral).  | C  | anc   | ele  | d                 |                   |                   |                   | A   |  |  |                   |  |                   | A  | ope:  | al                |                    |                   |                   |                   |  |                   |   |                   |
|               |                    |  |   |   |          | •  | ÷  | -   |  |  | ••••   | ••••   |  |  | F  | lest  | rict   | ed                |                   |                   |                   | 0   | ••••   |  | • • • • •         |  |                   | U  | ojec  | ted               |                    |                   |                   |                   |  |                   |   |                   |
| Cla           | im                 |  |   | -   |          | -  | Da   | ite   | _  |  |  |  |  |  |  |   |  | _                 |                   | 1                 | Dat               | •   |  | _  | -1                | $\exists$  |                   | _  |   | _                 |                    |                   | Da                | le                |  | —<br>—            | _   | -<br>Т            |
| 를             | iginal             |  | 1   |   | •        | ル<br>ら<br>こ  | 3  | )   |  |  |  |  |  |  | inal   | riginal   |  |                   |                   | İ                 | l                 |   |  |  |                   | ł  | lad               | riginal  |   |                   |                    |                   |                   |                   |  |                   |   |                   |
| 듸             | 싍                  | 1  | ١   | ł   |          |  | Ł  | ╁   | +  | $\dashv$   |  | _  | Н  |  | u.   | 51  | Н  |                   | -                 | ┪                 | $\dashv$          | -+  | $\dashv$   | ┪  | +                 | -  | -                 | 101  | Н   | $\vdash$          | Н                  | <u> </u>          | -                 |                   | -  | H                 |   | t                 |
| $\dashv$      | 2                  | 1  | Ť   | t   | H        | i  | Ħ  | $\dagger$   | +  | 7  |  | -  | Н  |  |  | 52  |  | _                 |                   |                   | J                 |   | ╛  |  |                   |  |                   | 102  |   |                   |                    |                   |                   |                   |  |                   |   | İ                 |
| I             | 3                  | 1  |   | I   | П        | L  | П  | Ι   |  |  | _  |  |  |  |  | 53  |  |                   | $\Box$            | I                 | _]                | J   | _]   | _]   | $\perp$           | _  | L                 | 1  | Ш   | Ц                 | Ц                  | Ĺ                 | _                 | $\sqcup$          |  | Ш                 | $\Box$  | 1                 |
| $\exists$     | 4                  | ŀ  | Ц   | 1   | H        | L  | Н  | ł   | -  | _  | -  | _  | Н  |  |  |   | _  | $\dashv$          |                   | -                 | $\dashv$          | $\dashv$  | -{   | $\dashv$   | ┥                 | $\dashv$   | $\vdash$          | _  |   | -                 |                    | _                 | -                 | Н                 |  | Н                 | H   | ł                 |
| $\dashv$      | _                  | ╁  | H   | ╁   | Н        | +  | ╫  | +   | +  | -  |  |  | Н  | }  | -  | 56  | -  | -                 | $\dashv$          | $\dashv$          | -                 | +   | +  | 1  | +                 | ᅥ  |                   | 106  |   | $\vdash$          | $\dashv$           | Н                 | $\vdash$          | Н                 | Н  | $\vdash$          | Н   | t                 |
| 7             | 7                  | t  | H   | t   | H        | t  | Ħ  | t   | 7  |  |  | _  | Н  | Ì  |  | 57  |  |                   |                   |                   |                   |   |  |  |                   |  |                   | 107  |   |                   |                    |                   |                   |                   |  |                   |   | Ī                 |
| $\exists$     | 8                  | T  | 2   |   |          | Ż  | V  | 1   | $\Box$   |  |  |  |  |  |  | 58  |  |                   | $\Box$            |                   | $\neg$            | 4   | $\perp$  |  | _                 | 4  |                   |  | Ш   | _                 | _                  |                   | ļ                 | Ш                 | Ш  | Ы                 | $\perp$   | ļ                 |
| 4             | 1                  | ╀  | M   | 4   | Y        | _  | ┡  | ╀   | 4  | -  |  | _  | Н  | }  | _  |   | -  |                   | -                 | -                 | 4                 | $\dashv$  | +  | -  | $\dashv$          | $\dashv$   | $\vdash$          | -  | _   |                   | $\dashv$           |                   | H                 |                   | -  |                   | $\vdash$  | ł                 |
| +             |                    | ╀  | H   | ╁   | Н        |  | H  | ╁   | +  | +  | -  |  | $\dashv$   | }  |  | 61  | -  | -                 | -                 |                   | +                 | 十   | $\dashv$   | 1  | $\dashv$          | -  | -                 | 111  | Н   | -                 | $\overline{\cdot}$ | Н                 | Н                 | Н                 |  |                   | H   | t                 |
| _             | 2:4                | t  | H.  | t   | tl       |  | H  | t   | +  | 7  |  | _  | Н  | -  |  | 62  |  |                   |                   |                   |                   | I   |  |  |                   |  | E                 | 112  |   |                   |                    |                   |                   |                   |  |                   |   | İ                 |
|               | 16                 | İ  | Ä   |   |          |  |  | L   |  |  |  | _  |  |  |  | 63  |  |                   |                   | $\Box$            | $\Box$            | $\Box$  |  |  | $\Box$            | $\Box$   |                   | 113  |   |                   |                    |                   |                   |                   |  |                   | <u>L</u>  | 1                 |
|               | 4                  | Į  | >   | 1   | 4        | Ý.   | 1  | 1   |  | 4  | _  |  | Щ  |  |  |   | _  | _                 | $\dashv$          | 4                 | -                 | -   | 4  | _  | 4                 | _  | $\vdash$          | -  | Н   | Н                 | Щ                  | ļ                 |                   | H                 | -  |                   | $\vdash$  | ł                 |
|               |                    | ╀  | H   | ł   | H        | +  | H  | ╀   | +  | -  | $\dashv$   | _  |  | -  | -  |   | ᅱ  | ᅱ                 |                   | -                 | -                 | +   | +  | ┪  | +                 | -  | $\vdash$          | 116  |   | Н                 |                    | -                 | -                 | Н                 | $\vdash$   | Н                 | Т   | †                 |
| _             |                    | t  | ₽   |   |          | 1  | J  | $\dagger$   | +  | +  | $\dashv$   |  |  |  | ,  |   |  |                   | 1                 | $\exists$         | 7                 | $\dashv$  |  | $\exists$  |                   |  |                   | 117  |   |                   |                    |                   |                   |                   |  |                   |   | İ                 |
| $\exists$     | 18                 | Ī  | N   | I   | V        | _  |  | İ   |  |  |  |  |  | ]  |  | 68  |  |                   |                   |                   |                   |   |  |  |                   |  |                   | -  |   |                   |                    |                   |                   |                   |  |                   |   | Į                 |
| -+            |                    | L  | 4   | ļ   | $\perp$  |  | L  | L   | 4  | 4  | _  | _  | _  |  |  |   | _  |                   | _                 | 4                 | _                 | 4   | -  |  | 4                 | -  | -                 | -  | H   | Ш                 | _                  | _                 |                   | _                 | _  | Н                 | H   | +                 |
| - I.          |                    | L  | 4   | 1   | 4        | _  | <u> </u> _                                       | -   | 4  | 4  |  |  |  | -  |  |   | -  | 4                 |                   | -                 | $\dashv$          | -   | 4  | $\dashv$   | $\dashv$          | 4  | -                 |  | H   | _                 | -                  | -                 |                   | $\vdash$          | <u> </u>   | $\vdash$          | -   | +                 |
| -             | 3                  | ╁  | +   | +   | -        | -  | ┝  | +   | +  | ┥  | $\dashv$   | -  | $\vdash$   | ł  | _  |   | -  | -                 |                   | -                 | $\dashv$          | $\dashv$  | +  | -  | +                 | $\dashv$   | -                 |  | H   |                   | Н                  |                   |                   | H                 |  |                   | Г   | †                 |
| +             | Zo.                | ተ  | 7   | t   | V        | _  | <del> </del>                                     | t   | +  | 7  | 긕  | _  | H  |  |  | 73  |  | 7                 |                   |                   |                   | 1   | 7  |  |                   |  |                   | 123  |   |                   |                    |                   |                   |                   | -  |                   |   | İ                 |
| $\Box$        | 24                 |  |   | ١   |          | 1  | V  | Έ   |  |  |  |  |  |  |  | 74  |  |                   |                   |                   |                   |   | _  |  | $\Box$            |  | -                 |  |   |                   | _                  | Ŀ                 | L                 |                   | <u></u>  | Ŀ                 | Ŀ   | 4                 |
|               |                    |  | _   | 1   | 4        |  | _  | 1   | 4  | -  | -  |  |  |  | _  |   |  | -                 |                   | $\dashv$          | -                 | -   | -  | $\dashv$   | +                 |  | -                 | +-   | ┝   |                   | -                  | ├                 |                   | H                 |  |                   | -   | $\dagger$         |
|               |                    |  | _   | ł   | $\dashv$ |  | ┢  | ╀   | +  | -  | -  |  | Н  | }  |  |   |  | $\dashv$          |                   | $\dashv$          | -                 | -   | ᅱ  |  | 1                 | -  | -                 |  | -   | -                 | -                  | $\vdash$          |                   | Н                 | -  | H                 | _   | †                 |
|               |                    | _  | Г   | t   |          |  | Τ  | t   | 7  |  | _  |  |  | Ì  |  | 78  |  |                   |                   |                   |                   |   |  |  |                   |  |                   |  |   |                   |                    |                   |                   |                   |  |                   | 匚   | Į                 |
| 1             |                    | _  |   | L   |          |  | L  | I   | 1  |  |  |  | П  |  |  | 79  |  |                   |                   | $\Box$            |                   | 1   |  | _  | _[                | 4  |                   |  | _   | L                 |                    | _                 | <u> </u>          | H                 | L  | $\vdash$          | L   | 1                 |
|               |                    |  | L   | 1   | 4        |  | ╀  | ╀   | +  | _  | _  | H  | Н  |  | _  |   |  | $\dashv$          | $\dashv$          | $\dashv$          | -                 | $\dashv$  | -  | 4  | $\dashv$          |  |                   | -  | -   | Н                 |                    | -                 | ├                 | -                 | $\vdash$   | $\vdash$          | $\vdash$  | ł                 |
| -             | -+                 | _  | H   | +   | 4        |  | $\vdash$   | +   | +  | -  | _  | $\vdash$   | $\vdash \vdash$  |  |  | _   |  | -                 | $\dashv$          | $\dashv$          | -                 | $\dashv$  | $\dashv$   | -1   | $\dashv$          | $\dashv$   | -                 |  |   | Н                 | Ε'                 | $\vdash$          | $\vdash$          | 1                 |  | Н                 | Г   | †                 |
|               | 33                 | -  | -   | t   | ┪        | -  |  | t   | $\dagger$  | _  |  |  |  |  |  | 83  |  |                   |                   |                   |                   |   |  |  |                   | コ  |                   | 133  |   |                   |                    |                   |                   |                   |  |                   |   | 1                 |
| _             | 34                 | _  |   | Ţ   |          |  | L  | I   | 1  |  |  | F  |  | ļ  |  | 84  |  |                   | Ц                 |                   | _]                | _   |  | _  | Ц                 | _  | $\perp$           | -  | -   | <u> </u>          | <u> </u>           | L                 | <b>├</b>          | $\vdash$          | <b> </b> —                                       | $\vdash$          | $\vdash$  | 4                 |
|               | 35                 |  | _   | 1   | 4        | _  | ╀  | 1   | 1  | _  |  | _  | $\sqcup$   |  | -  |   | H  | _                 | Н                 | Н                 | _                 | 4   | 4  | 4  | $\vdash$          |  | -                 |  |   | -                 | -                  | ⊢                 | ╀                 | $\vdash$          | $\vdash$   | $\vdash$          | $\vdash$  | +                 |
| 1             |                    |  | $\vdash$  | +   | -        | _  | $\vdash$   | +   | +  | 4  | <u> </u>   | -  | Н  |  |  | _   |  | -                 | H                 | -                 | -                 | $\dashv$  | $\dashv$   | -  | $\dashv$          | $\dashv$   | -                 | _  | _   | $\vdash$          | -                  | 1-                | +-                | $\vdash$          | <del>                                     </del> |                   | t   | 1                 |
|               | 38                 | _  | $\vdash$  | +   |          | -  | +  | $\dagger$   | $\dashv$   | ٦  |  | -  | Н  |  | -  | 88  | Н  | Н                 | Н                 |                   | $\dashv$          | $\dashv$  | $\exists$  |  |                   | $\dashv$   | -                 | -  |   |                   |                    |                   | İ                 | 匚                 |  |                   |   | 1                 |
| $\rightarrow$ | 39                 | _  |   | 1   |          |  |  | İ   | 1  |  |  |  |  |  |  | 89  |  |                   |                   |                   |                   |   |  |  |                   | $\Box$   |                   | +-   | -   |                   |                    |                   |                   | F                 | Ĺ  | F                 | Ļ   | 1                 |
|               | 40                 | _  |   | Ţ   |          |  | Į  | I   | I  |  |  |  |  |  | L  | 90  |  |                   |                   |                   |                   |   |  |  | Ш                 | _  | -                 |  | -   | _                 | <u> </u>           | <u> </u> _        | _                 | <del> </del>      | 1  | $\vdash$          | $\vdash$  | 4                 |
|               | 41                 |  |   | 1   |          |  | 1_   | 1   | 4  | _  | _  | _  | Ц  |  | $\vdash$   |   | <u> </u>   | Н                 | Щ                 | Н                 | $\vdash$          | _   | -  |  | $\vdash$          |  | -                 | -  | _   | ⊢                 |                    | <del> </del>      | $\vdash$          | ├-                | -  | -                 | $\vdash$  | 4                 |
|               |                    |  | -   | +   | _        | _  | ╀  | +   | 4  | 4  | <u> </u>   | L  | $\vdash \vdash$  |  |  | _   | -  | H                 | $\vdash$          | $\vdash$          | H                 | -   |  |  | Н                 | $\dashv$   | -                 |  |   | $\vdash$          |                    | $\vdash$          | 1                 | $\vdash$          | +  | +-                | $\vdash$  | 1                 |
|               | 44                 |  | -   | +   | -        | H  | +  | +   | $\dashv$   | -  |  | -  | Н  |  | $\vdash$   | 94  | ۲-   | -                 | H                 | $\vdash$          |                   |   | -  |  | -                 |  | -                 | 144  | 1   | 1                 | 一                  | $\vdash$          | T                 | $\vdash$          | 1-   | $\vdash$          | T   | 1                 |
|               |                    |  | +-  | +   | _        | <del>-</del>   | +-   | +   | -+   |  |  | -  | ┰  |  | Ι  | 95  | <u> </u>   | _                 |                   | $\vdash$          |                   |   | -  |  | $\vdash$          | 一[   |                   | 145  | 1   |                   |                    |                   | 1                 | 1                 | Г  | T                 | Г   | T                 |
|               | 45                 |  | l   | 1   | _        | L  |  | Л   | _ {  | _  | L  | L  | L١   | 1  | L  | _   | _  | _                 | <u></u>           |                   |                   |   |  |  |                   |  |                   |  |   |                   | ⊢                  | <b>├</b>          | +                 | ⊢                 | -  | ⊢                 | ┰   | -}                |
|               | 45<br>46<br>47     |  |   | 1   | _        |  |  |   | 1  |  |  |  |  |  |  | 96<br>97  |  |                   |                   |                   |                   |   |  | _  |                   | $\exists$  |                   | 146  |   |                   | E                  |                   | L                 | 匚                 | L  | L                 | L   | 1                 |
|               | Claratic           | CLaim  Recipion of the control of th | Claim   PEG | Claim  RESPO  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | FEE DET  | FEE DETER   O.I.P.E. CL   FORMALIT   RESPONSE   STAT | FEE DETERM O.I.P.E. CLAS FORMALITY RESPONSE F  2 | FEE DETERMIN. O.I.P.E. CLASSI FORMALITY RE RESPONSE FOR | FEE DETERMINAT O.I.P.E. CLASSIFI FORMALITY REVI RESPONSE FORM  2 3 4 5 6 7 8 9 10 11 15 16 17 15 16 17 17 18 10 10 11 11 15 16 17 17 18 10 10 11 11 11 12 20 21 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 39 39 39 39 39 40 41 42 | FEE DETERMINATION O.I.P.E. CLASSIFIER FORMALITY REVIEW RESPONSE FORMAL | FEE DETERMINATION O.I.P.E. CLASSIFIER FORMALITY REVIEW RESPONSE FORMALIT  (Thro  """"""""""""""""""""""""""""""""""" | FEE DETERMINATION O.I.P.E. CLASSIFIER FORMALITY REVIEW RESPONSE FORMALITY  (Through The state of the state of | FEE DETERMINATION O.I.P.E. CLASSIFIER FORMALITY REVIEW RESPONSE FORMALITY RE  (Through no continue of the cont | FEE DETERMINATION O.I.P.E. CLASSIFIER FORMALITY REVIEW RESPONSE FORMALITY REVIE  (Through nume | FEE DETERMINATION O.I.P.E. CLASSIFIER FORMALITY REVIEW  AESPONSE FORMALITY REVIEW  (Through numeral)  (Through numeral)  (Through numeral)  (Through numeral)  (Through numeral)  (Through numeral)  (Through numeral)  (Through numeral)  (Through numeral)  (Through numeral)  (Through numeral) | FEE DETERMINATION O.I.P.E. CLASSIFIER FORMALITY REVIEW  AESPONSE FORMALITY REVIEW  (Through numeral)  (Through numeral)  (In the state of the state | FEE DETERMINATION  O.I.P.E. CLASSIFIER  FORMALITY REVIEW  RESPONSE FORMALITY REVIEW  - Reje - Allow - (Through numeral) Cand - Rest    Claim | FEE DETERMINATION | FEE DETERMINATION | FEE DETERMINATION | FEE DETERMINATION | FEE DETERMINATION  O.L.P.E. CLASSIFIER FORMALITY REVIEW  RESPONSE FORMALITY REVIEW  ——————————————————————————————————— | FEE DETERMINATION  O.I.P.E. CLASSIFIER FORMALITY REVIEW  RESPONSE FORMALITY REVIEW | FEE DETERMINATION  O.I.P.E. CLASSIFIER FORMALITY REVIEW  RESPONSE FORMALITY REVIEW | FEE DETERMINATION | FEE DETERMINATION  O.I.P.E. CLASSIFIER FORMALITY REVIEW  RESPONSE FORMALITY REVIEW | FEE DETERMINATION | FEE DETERMINATION  O.L.P.E. CLASSIFIER FORMALITY REVIEW  RESPONSE FORMALITY REVIEW   INDEX OF CLAIMS  Rejected  Allowed  (Through numeral)  Canceled A  Restricted  O  Claim  Date  Claim  Date  Claim  Date  Claim  Date  FEE DETERMINATION  Nejected  A Mowed  A Mowed  A Mowed  A Mestricted  O  Claim  Date  FEE DETERMINATION  RESPONSE FORMALITY REVIEW  INDEX OF CLAIMS  Rejected  A Mowed  A M | FEE DETERMINATION  O. I.P.E. CLASSIFIER FORMALITY REVIEW  RESPONSE FORMALITY REVIEW | FEE DETERMINATION | FEE DETERMINATION  | FEE DETERMINATION | FEE DETERMINATION | FEE DETERMINATION | FEE DETERMINATION                                | FEE DETERMINATION | FEE DETERMINATION  OLP.E. CLASSIFIER  FORMALITY REVIEW  RESPONSE FORMALITY REVIEW  INDEX OF CLAIMS  Rejected  (Through numeral)  Claim  Oate  Oate  Claim  Oate  Oate  Oate  Oate  Oate  Oate  Oate  Oate  Oate  Oate  Oate  Oate | FEE DETERMINATION |

If more than 150 claims or 10 actions staple additional sheet here

(LEFT INSIDE)